



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

order 5234
2136

C2
Job Sheet 176683



Part No: C2

Job Qty: 1 ea

Part Name: C-Series Remote Hook 2,000 lbs Lift Capacity



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/27/18

Job Tracking No:

Created By: Marie Lajeunesse

Due Date: 5/11/18

Type: SOLD

Description:

Note: DWG C2 Rev. 2 IPP Rev. A 18.04.24 new issue DP Verify DD

Ship Via:

5107876

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		5/11/18	0.00	0.00	Start Up Small Fab-4		
100	Small Fab	1 pcs		5/11/18	0.00	1.00	Small Fab-3		
110	QC	1 pcs		5/11/18	0.00	0.00	QC5		
120	DC	1 pcs		5/11/18	0.00	0.00	DC		
130	Packaging	1 pcs		5/11/18	0.00	0.00	Packaging3-2		
140	QC21-SA	1 Ea		5/11/18	0.00	0.00	QC21		

Part Op 100 - 1- PICK C2-2-1 AND LASER ENGRAVE AS PER DWG. SEE NOTE 3 AND 4 ON SHEET 3. 2- ASSEMBLE AS Descriptions: PER DWG

120 - - Photocopy blue file OM & OOPM-C2 Rev 4

130 - Identify and Stock

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	90-Start up Operation	5058750
2595K22	Heat Shrink Tube	1 Ea (1 ea)	100-Small Fab	5072055
32446	Crimp Terminal	2 Ea (2 ea)	100-Small Fab	5074909
AN3-14A	Bolt	1 Ea (1 ea)	100-Small Fab	5068652
AN4-16A	Bolt	2 Ea (2 ea)	100-Small Fab	5099494
AN4-17A	Bolt	1 Ea (1 ea)	100-Small Fab	5089287
C2-1-1	Manual Release Knob	1 Ea (1 ea)	100-Small Fab	5100195
C2-10-1	Lock Spring Pin	1 pcs (1 ea)	100-Small Fab	5068051
C2-11-1 P	Side Plate, Solenoid	1 Ea (1 ea)	100-Small Fab	5029233
C2-11-2	Locating Pin	2 Ea (2 ea)	100-Small Fab	5058757
c2-12-1	Lock Bushing	2 Ea (2 ea)	100-Small Fab	5074637
C2-12-3 P	Lock	1 Ea (1 ea)	100-Small Fab	5029235
C2-12-7P	Teflon Spacer Lock	2 pcs (2 ea)	100-Small Fab	5029236
C2-12-8	DUST SHEILD - C2 HOOK	2 Ea (2 ea)	100-Small Fab	5075404
C2-13-4P	Keeper C2 Hook	1 pcs (1 ea)	100-Small Fab	5029238
C2-13-5	Keeper Spring	1 (1 ea)	100-Small Fab	5084083
C2-2-1 P	Side Plate	1 Ea (1 ea)	100-Small Fab	5029242
C2-3-1	Bearing DU	2 pcs (2 ea)	100-Small Fab	5093406
C2-3-10	Latch Shaft	1 Ea (1 ea)	100-Small Fab	5046764
C2-3-11	Actuator	1 pcs (1 ea)	100-Small Fab	5075123
C2-3-2 P	Latch Roller Pin	1 Ea (1 ea)	100-Small Fab	5029246
C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	100-Small Fab	5056845

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER : ☐					

C2-3-3	Latch Roller	1 Ea (1 ea)	100-Small Fab
C2-3-3-1	Latch Roller DU Bearing	1 Ea (1 ea)	100-Small Fab
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	100-Small Fab
C2-3-6	Latch	1 Ea (1 ea)	100-Small Fab
C2-3-8	Actuator Bushing	2 Ea (2 ea)	100-Small Fab
C2-4-1	Trunnion Bushing	2 (2 ea)	100-Small Fab
C2-4-4A P	Load Beam Assembly - C2 Hook	1 Ea (1 ea)	100-Small Fab
C2-5-1	Actuator Stop	1 Ea (1 ea)	100-Small Fab
C2-7-1P	Load Beam Bumper	1 pcs (1 ea)	100-Small Fab
C2-7-2	Lock Bumper	2 Ea (2 ea)	100-Small Fab
C2-9-1P	Clock Spring Cover	1 pcs (1 ea)	100-Small Fab
C2-9-2	Clock Spring	1 Ea (1 ea)	100-Small Fab
C2-9-3 P	Clock Spring Cover Screw	4 Ea (4 ea)	100-Small Fab
C3-10-2	Lock Spring	1 Ea (1 ea)	100-Small Fab
C3-3-4	Link Pin	2 Ea (2 ea)	100-Small Fab
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	100-Small Fab
C3-3-7	Link	1 Ea (1 ea)	100-Small Fab
C3-3-9 P	Actuator Spring	1 pcs (1 ea)	100-Small Fab
C3-8-2	Solenoid	1 Ea (1 ea)	100-Small Fab
C3-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	100-Small Fab
C3-8-5	Solenoid Cover	1 Ea (1 ea)	100-Small Fab
CORD GRIP	Cord Grip	1 pcs (1 ea)	100-Small Fab
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	100-Small Fab
M27500-16TG2T14	Wire - 16-Gauge - Shielded	1 pcs (1 ea)	100-Small Fab
MS21044N4	Nut, Self-Locking	3 Ea (3 ea)	100-Small Fab
MS21083N3	Nut	3 Ea (3 ea)	100-Small Fab
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	100-Small Fab
MS35338-137	Washer	4 Ea (4 ea)	100-Small Fab
MS35338-137	Washer	4 Ea (4 ea)	100-Small Fab
NAS1149F0332P	Washer	4 Ea (4 ea)	100-Small Fab
NAS1149F0363P	Washer	1 Ea (1 ea)	100-Small Fab
NAS1149F0463P	Washer	6 Ea (6 ea)	100-Small Fab

SO 68693
 SO 96109
 SO 58758
 SO 83629
 SO 79664
 SO 79588
 SO 29252
 SO 58759
 SO 29255
 SO 76396
 SO 29257
 SO 77510
 SO 29259
 SO 98948
 SO 94866
 SO 79589
 SO 48390
 SO 29280
 S107859
 S107859 S04361
 S100111
 SO 58754
 SO 79296
 SO 75144
 SO 61119
 SO 79337
 SO 75329
 SO 49176
 SO 80297
 SO 27738
 SO 56461

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	188-FPSS-1032-1/4	2	104	0
100-Small Fab	2595K22	1	28	0
	32446	2	100	0
	AN3-14A	1	78	0
	AN4-16A	2	239	0
	AN4-17A	1		0
	C2-1-1			0
	C2-10-1			0
	C2-10-4			0
	C2-10-5			0
	C2-10-6			0
	C2-10-7			0
	C2-10-8			0
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	C2-10-276			0
	C2-10-277			0</

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

C2-7-2	2	0	0
C2-9-1P	1	54	0
C2-9-2	1	0	0
C2-9-3	4	50	0
C3-10-2	1	0	0
C3-3-4	2	0	0
C3-3-4-1	4	62	0
C3-3-7	1	50	0
C3-3-9	1	0	0
C3-8-2	1	0	0
C3-8-4	1	0	0
C3-8-5	1	0	0
CORD GRIP	1	7	0
EL-PLUG-M	1	46	0
M27500-16TG2T14	1	0	0
MS21044N4	3	158	0
MS21083N3	3	87	0
MS35266-63	1	44	0
MS35338-137	8	578	0
NAS1149F0332P	4	1,663	0
NAS1149F0363P	1	221	0
NAS1149F0463P	6	481	0

Part Specifications

Specifications could not be found.

Plex 4/27/18 10:48 AM Dart.lajeunesse.marie

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

NEW SOLENOID (152951-001)

Work Order: 176683

Customer: _____

Serial Number: S107876

Date: 06/09/2018

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/fail
1	5,000	Static Hold	Hold for two Minutes and reduce load to zero	N/A	PASS
10	1,000	Electircal, 25 volts	No "hang ups" permitted	N/A	PASS
2	2,000	Electircal, 22 volts	Current shall not exceed 13.0A	8.6 Amp.	PASS
2	1,500	Electircal, 22 volts	Current shall not exceed 13.0A	8.6 Amp.	PASS
2	1,000	Electircal, 22 volts	Current shall not exceed 13.0A	9 Amp.	PASS
2	500	Electircal, 22 volts	Current shall not exceed 13.0A	9 Amp.	PASS
2	100	Electircal, 22 volts	Current shall not exceed 13.0A	9 Amp.	PASS
1	2,000	Electircal, 20 volts	Current shall not exceed 13.0A	8 Amp.	PASS
1	2,000	Electircal, 28 volts	Current shall not exceed 13.0A	11 Amp.	PASS
1	2,000	Manual		N/A	PASS
1	2,000	Impact Test	Impact shackle 10 times, shall not release	N/A	PASS
1	N/A	Solenoid Ohms	Shall not exceed 2.1 - 2.4 Ohms	2.2 Ohms	PASS
1	N/A	Electircal Continuity	Across both wires	N/A	PASS

Test Conducted By: Francis Lacroix

Signature: Sylvia Sanchez